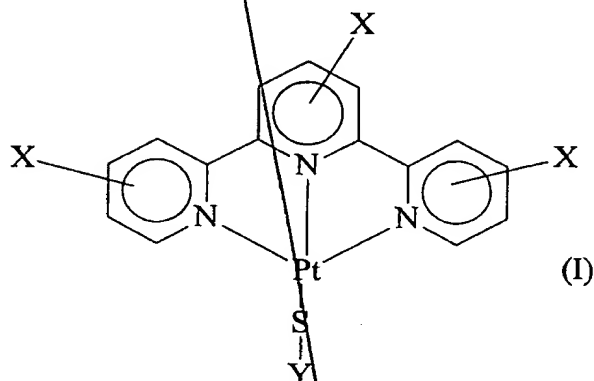


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CLAIMS

1. A compound which is a complex of formula (I)



wherein

each X, which may be the same or different, is hydrogen, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, heterocyclyl, aralkyl, alkaryl, acyl, halogen, haloalkyl, haloaryl, hydroxyalkyl, hydroxyaryl, aminoalkyl, aminoaryl, primary, secondary or tertiary amine, hydrazine, alkylhydrazine, alkoxyl, alkylthio, aralkoxyl, nitrile, ester, amide, nitro, azide or aziridino, or is a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species, or a covalently linked moiety which provides recognition for a target receptor; and

Y is alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aralkyl, heterocyclyl, an inorganic oxyacid or inorganic oxyacid derivative, or a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species; or

a pharmaceutically acceptable salt thereof, for use in a method of treatment of the human or animal body by therapy.

2. A compound as claimed in claim 1 wherein X is hydrogen, halogen or alkoxyl.

3. A compound as claimed in claim 1 or 2 wherein X is hydrogen, chlorine, methoxyl, ethoxyl, propoxyl, butyloxyl, pentyloxyl, hexyloxyl, heptyloxyl, octyloxyl, bromophenyl or tolyl.

4. A compound as claimed in any one of claims 1 to 3 wherein Y is

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alkyl, alkaryl, heterocyclyl or an inorganic oxyacid or inorganic oxyacid derivative.

5. A compound as claimed in any one of the preceding claims wherein Y is $(\text{CH}_2)_n\text{OH}$ or $(\text{CH}_2)_n\text{NH}_3^+$ wherein n is an integer of 1 to 6 or alkyl substituted by one or more amino or carboxy groups; CH_2aryl ; a 5- or 6-membered saturated heterocyclic ring or a 5- or 6-membered unsaturated heterocyclic ring containing at least one N which may be fused to a 6-membered aryl ring; or SO_3R or PO_3R_2 wherein R is hydrogen or alkyl.

6. A compound as claimed in claim 5 wherein n is an integer of at least 2.

7. A compound as claimed in any one of claims 1 to 5 which is

2-hydroxyethanethiolate-(2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-p-bromophenyl-2,2':6',2''-terpyridine)platinum (II),

2-hydroxyethanethiolate-(4'-p-tolyl-2,2':6',2''-terpyridine)platinum (II),

2-aminoethanethiolate-(2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-p-bromophenyl-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-p-tolyl-2,2':6',2''-terpyridine)platinum (II),

pyridine-4-thiolate-(2,2':6',2''-terpyridine)platinum (II),

pyridine-4-thiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),

pyridine-4-thiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),

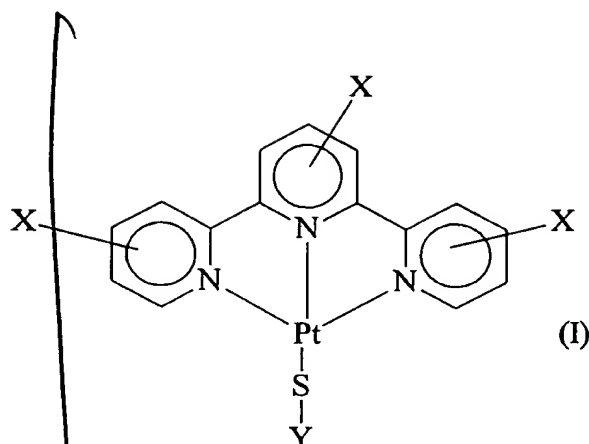
pyridine-4-thiolate-(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II),

pyridine-4-thiolate-(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II),
 pyrimidine-2-thiolate-(2,2':6',2''-terpyridine)platinum (II),
 pyrimidine-2-thiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),
 pyrimidine-2-thiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),
 imidazole-2-thiolate-bis[(2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-chloro-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II)],
 10 imidazole-2-thiolate-bis[(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-p-bromophenyl-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-p-tolyl-2,2':6',2''-terpyridine)platinum (II)],
 benzimidazole-2-thiolate-bis[(2,2':6',2''-terpyridine)platinum (II)],
 15 benzimidazole-2-thiolate-bis[(4'-chloro-2,2':6',2''-terpyridine)platinum (II)],
 benzimidazole-2-thiolate-bis[(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II)],
 N,S-bis[(2,2':6',2''-terpyridine)platinum(II)] thioacetimine,
 N,S-bis[(4'-chloro-2,2':6',2''-terpyridine)platinum (II)] thioacetimine,
 diethylphosphorothioato (4'-chloro-2,2':6',2''-terpyridine)platinum(II),
 20 succinylthiolatoplatinum (II) 2,2':6',2''-terpyridine, or
 1-thio- β -D-glucose(2,2':6',2''-terpyridine)platinum (II).

8. Use of a compound as defined in any one of the preceding claims in
 the manufacture of a medicament for use as an anti-protozoal, anti-rheumatoid
 arthritic or anti-tumour agent.

25 9. A compound which is a complex of formula (I)

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wherein

each X, which may be the same or different, is hydrogen, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, heterocyclyl, aralkyl, alkaryl, acyl, halogen, haloalkyl, haloaryl, hydroxyalkyl, hydroxyaryl, aminoalkyl, aminoaryl, primary, secondary or tertiary amine, hydrazine, alkylhydrazine, alkoxyl, aralkoxyl, nitrile, ester, amide, nitro, azide or aziridino, or is a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species, or a covalently linked moiety which provides recognition for a target receptor; and

Y is alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aralkyl, heterocyclyl, an inorganic oxyacid or inorganic oxyacid derivative, or a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species; or

a pharmaceutically acceptable salt thereof, with the proviso that the complex of formula (I) is not 2-hydroxyethanethiolate(2,2':6',2''-terpyridine)platinum (II) or 2-aminoethanethiolate(2,2':6',2''-terpyridine)platinum (II).

10. A pharmaceutical composition comprising a compound as defined in any one of claims 1 to 7 or 9 in association with a pharmaceutically acceptable carrier or excipient.